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1991

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adaptive multifrequency multistatic matched illumination acoustics*Gjessing, D.T.; Saebboe, J.;*

Radar, Sonar and Navigation, IEE Proceedings - , Volume: 149 Issue: 2 , April ;
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8 Stability and movement of a one-link neuromusculoskeletal sagittal arm*Dinneen, J.A.; Hemami, H.;*

Biomedical Engineering, IEEE Transactions on , Volume: 40 Issue: 6 , June 1993
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9 Studies of dual polarized low grazing angle radar sea scatter in nearshore regions*Trizna, D.B.; Carlson, D.J.;*

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Neural Networks, 1992. IJCNN., International Joint Conference on , Volume: 1

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[Analysing character shapes by string matching techniques - Herz, Hersch \(1993\) \(Correct\)](#)
logic remains implicit. This is the reason why **grid-fitting** systems require explicit knowledge that has to
or even automatically, as could be the case for **grid-fitting** purposes) Let us proceed with a concrete
cajun.cs.nott.ac.uk/wiley/journals/epobetan/pdf/volume6/issue3/hersch.pdf

[New Cartesian Grid Methods For Interface Problems Using The... - Li, Lin, Wu \(Correct\)](#)
those closely related to this paper. 1.1. Body **fitting grid** methods based on finite element
is aligned with the interface (body **fitting grid**) This can be proved strictly in one
difficult and time consuming to generate a body **fitting grid** for an interface problem in which the
ftp.ncsu.edu/pub/ncsu/crsc/crsc-tr99-12.ps.Z

[Data Structures and Implementation of Composite Adaptive Grid.. - Zhu, Oliger \(Correct\)](#)
of solving PDE's. One method is to use body **fitting grid** for the entire domain. The difficulty of this
of using a composite grid over using a body **fitting grid** is that transformations are only needed near
www.sccm.stanford.edu/students/xzhu/paper2.ps.gz

[Some comments about the ToolKit InterViews 3.1 - Fekete \(Correct\)](#)
the extent of several connecting segments. 3.5. **Grid fitting** InterViews uses floating point coordinates
can handle the matrix by itself if precise **grid fitting** is required. This is harder with InterViews
ftp.lri.fr/LRI/articles/jdf/comments-iv.ps.Z

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Example-based hinting of true type fonts

Full text Pdf (299 KB)

Source International Conference on Computer Graphics and Interactive Techniques at
Proceedings of the 27th annual conference on Computer graphics and interac

Pages: 411 - 416
Year of Publication: 2000
ISBN:1-58113-208-5

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Sponsor SIGGRAPH: ACM Special Interest Group on Computer Graphics and Interac

Publisher ACM Press/Addison-Wesley Publishing Co. New York, NY, USA

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↑ ABSTRACT

Hinting in TrueType is a time-consuming manual process in which a typographer c
for better fitting the characters of a font to a grid of pixels. In this paper, we prop
automatically hinting TrueType fonts by transferring hints of one font to another. (
target font without hints, our method matches the outlines of corresponding glyph

9/960,064

translates all of the individual hints for each glyph from the source to the target font value table (CVT) entries, which are used to unify feature sizes across a font. The provides a great improvement over the unhinted version. More importantly, the tr the sound, hand-designed hinting structure of the original font, provide a very good professional typographer to complete and fine-tune, saving time and increasing pr approach with examples of automatically hinted fonts at typical display sizes and s provide estimates of the time saved by a professional typographer in hinting new f approach.

↑ REFERENCES

Note: OCR errors may be found in this Reference List extracted from the full text ; the complete List rather than only correct and linked references.

- 1 Adobe Systems, Inc. Adobe Type 1 Font Format, March 1990.
- 2 Sten E Andler. Automatic generation of gridfitting hints for rasterization of outline. Proceedings of the International Conference on Electronic Publishing, Document M pages 221-234, September 1990.
- 3 Apple Computer, Inc. The TrueType Font Format Specification, 1990. Version 1
- 4 Claude B6trisey. G~n~ration Automatique de Contraintes pour CaractOres Typ ModOle Topologique. PhD thesis, l~cole Polytechnique F6d6rale de Lausanne, 199
- 5 Roger D. Hersch, Character generation under grid constraints, Proceedings of t Computer graphics and interactive techniques, p.243-252, August 1987
- 6 Roger D. Hersch , Claude Betrisey, Model-based matching and hinting of fonts, conference on Computer graphics and interactive techniques, p.71-80, July 1991
- 7 Beat Stature. Visual TrueType: A graphical method for authoring font intelligen and H. Brown, editors, Electronic Publishing, Artistic Imaging, and Digital Typograp 1998.

↑ CITINGS 2

Ariel Shamir, Constraint-based approach for automatic hinting of digital typefaces, (TOG), v.22 n.2, p.131-151, April 2003

William T. Freeman , Joshua B. Tenenbaum , Egon C. Pasztor, Learning style trans ACM Transactions on Graphics (TOG), v.22 n.1, p.33-46, January 2003

↑ INDEX TERMS

Primary Classification:

I. Computing Methodologies

↪ I.7 DOCUMENT AND TEXT PROCESSING

Additional Classification:

I. Computing Methodologies

↪ I.4 IMAGE PROCESSING AND COMPUTER VISION

↪ I.4.7 Feature Measurement

↪ Subjects: Size and shape

↪ I.4.8 Scene Analysis

↪ Subjects: Shape

↪ I.5 PATTERN RECOGNITION

↪ I.5.2 Design Methodology

↪ Subjects: Feature evaluation and selection

↪ I.7 DOCUMENT AND TEXT PROCESSING

General Terms:

Design, Documentation, Measurement, Performance, Theory

Keywords:

automatic hinting, digital typography, gridfitting, shape matching

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